

FIG.1

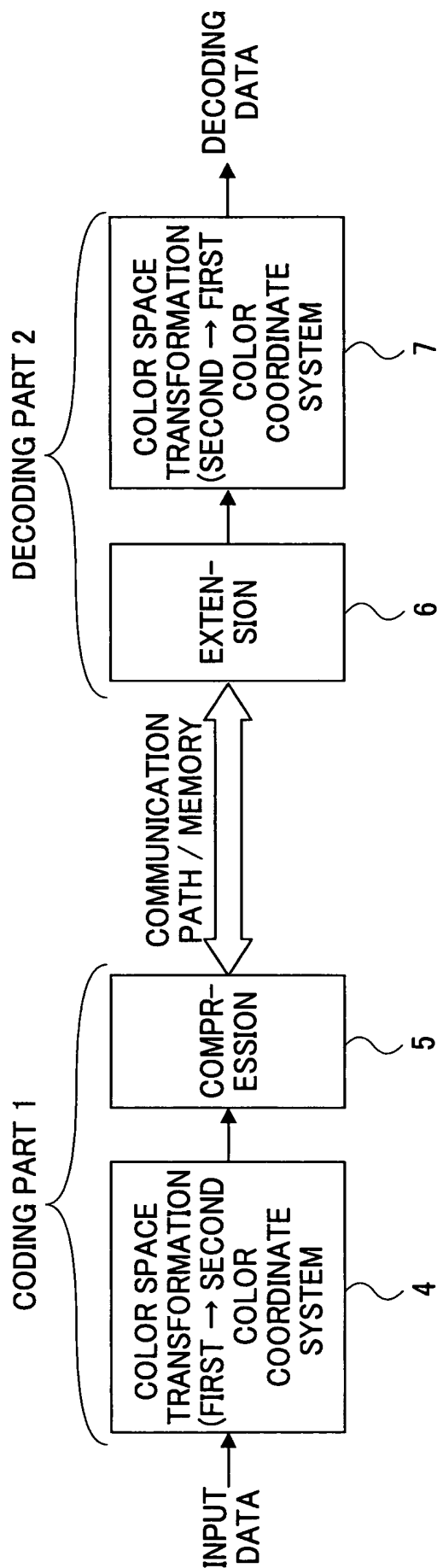


FIG.2

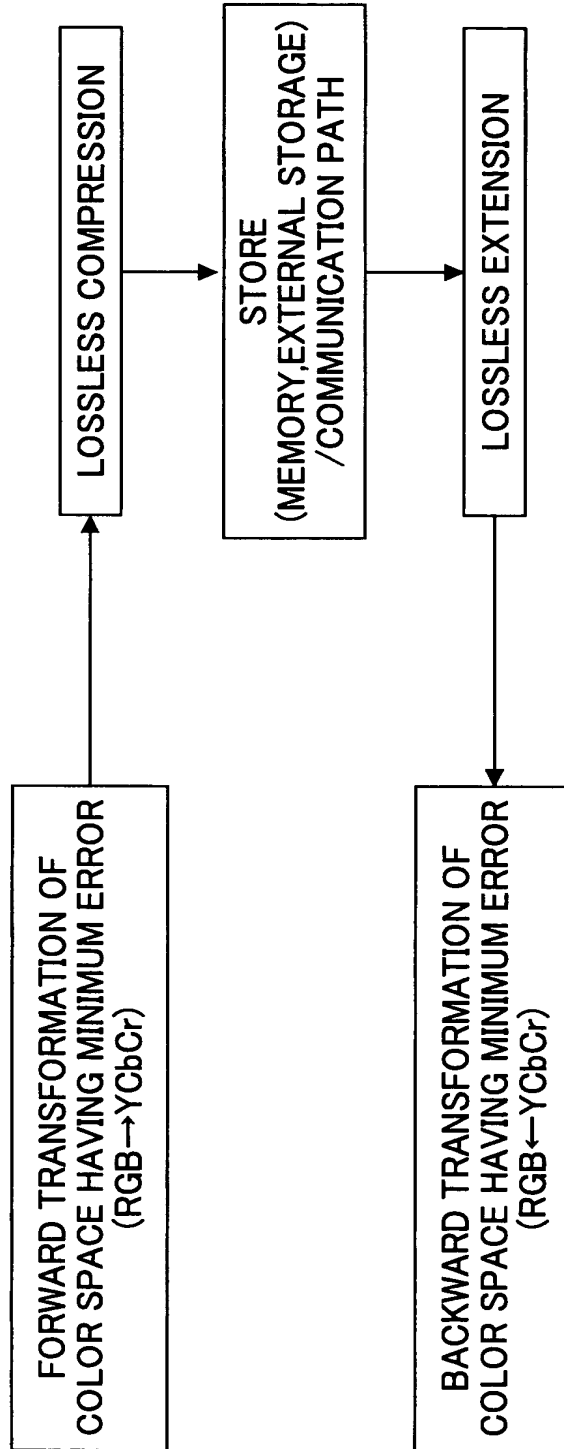


FIG.3

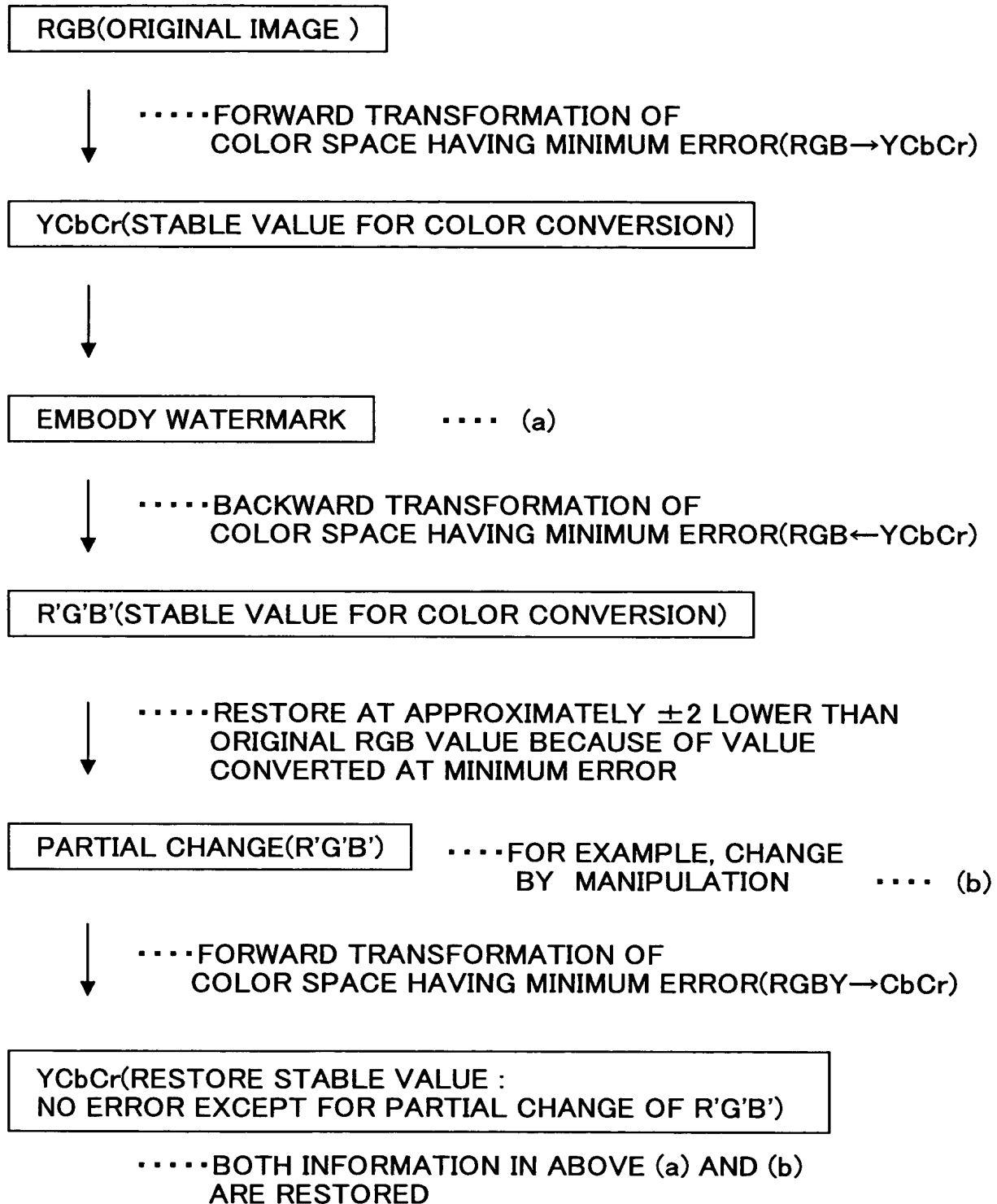


FIG.4

[ANALOG TYPE COLOR CONVERSION]

[ORIGINAL DATA]

R	G	B
104	112	134

Y	Cr	Cb
112	123	139
112.2879	122.9168	138.8421

FIXED POINT
OPERATION

R'	G'	B'
104	112	134
103.7977	111.5352	133.9835

FIXED POINT
OPERATION

Y'	Cr'	Cb'
112	123	139
112.2879	122.9168	138.8421

DEVELOP RESULTS OF AUTOMATIC CONVERSION
TO RIGHT WHEN INPUT VALUE FROM 0 TO 255

FLOATING POINT
OPERATION

Y	Cr	Cb
112	123	139
112.2879	122.9168	138.8421

FLOATING POINT
OPERATION

Y'	Cr'	Cb'
112	123	139
112	123	139

RESTORE

FIG.5

[DIGITAL TYPE COLOR CONVERSION USING ITU-R BT.601]

[ORIGINAL DATA]

R	104
G	112
B	134

← DEVELOP RESULTS OF AUTOMATIC CONVERSION
TO DOWN WHEN INPUT VALUE FROM 0 TO 255

← DEVELOP RESULTS OF AUTOMATIC CONVERSION
TO DOWN WHEN INPUT VALUE FROM 0 TO 255

← DEVELOP RESULTS OF AUTOMATIC CONVERSION
TO DOWN WHEN INPUT VALUE FROM 0 TO 255

Y	112
Cb	139
Cr	123

R'	105
G'	112
B'	131

Y'	112
Cb'	139
Cr'	123

R'	105
G'	112
B'	131

RESTORE

RESTORE

FIG.6**[REVERSIBLE TRANSFORMATION OF Y/Cb/Cr → R/G/B FOR MLC]****[ORIGINAL DATA]**

R	1
G	254
B	254

← DEVELOP RESULTS OF AUTOMATIC CONVERSION
TO DOWN WHEN INPUT VALUE FROM 1 TO 254

← DEVELOP RESULTS OF AUTOMATIC CONVERSION
TO DOWN WHEN INPUT VALUE FROM 1 TO 254

← DEVELOP RESULTS OF AUTOMATIC CONVERSION
TO DOWN WHEN INPUT VALUE FROM 1 TO 254

	X	Y	
MAX(RGB)	Rc	Bc	DENOMINATOR
256	299	114	1000

